Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented):

A cutter for a web which comprises:

a web transport system that operates cyclically to advance the web, the web transport system providing a synchronization signal at a known point in a cutting cycle;

a drive system coupled to a cutting knife, the drive system oscillating the cutting knife from a resting position to an active position and back to the resting position in response to an actuating signal;

a sensor in the path of the cutting knife, the sensor providing a position signal when the cutting knife is at a predetermined position that is substantially different than the resting position; and

a controller coupled to the web transport system, the drive system, and the sensor, the controller further comprising

a synchronization circuit to receive the synchronization signal from the web transport system;

an actuating circuit to provide the actuating signal to the drive system;

a position sensing circuit to receive the position signal from the sensor; and

an adjusting circuit coupled to the synchronization circuit, the position sensing

circuit, and the actuating circuit, the adjusting circuit causing the actuating

circuit to provide subsequent actuating signals so that the cutting knife arrives

at the predetermined position at a predetermined time relative to the

synchronization signal.

2. (original):

The cutter as recited in 1, wherein the synchronization signal allows the phase within the

cutting cycle to be determined.

3. (original):

The cutter as recited in 1, wherein the drive system includes a pneumatic actuator.

4. (original):

The cutter as recited in 1, wherein the drive system includes a hydraulic actuator.

5. (original):

The cutter as recited in 1, wherein the predetermined position is substantially at a position

where the cutting knife is in contact with the web prior to cutting the web.

6. (previously presented):

The cutter as recited in 1, wherein the web transport system includes a clamp adjacent to the

cutting knife, the clamp to hold the web while the web is being cut.

7. (previously presented):

The cutter as recited in 6, wherein the drive system is supported by the clamp such that the cutting knife is moved toward the web when the clamp is moved towards the web to hold the web.

8. (currently amended):

A ~~controller for~~ controller of a web cutter which comprises:

a synchronization circuit ~~to receive~~ that receives a synchronization signal from a web transport system that operates cyclically to advance a web, the synchronization signal providing a known point in each cutting cycle;

an actuating circuit ~~to provide~~ that provides an actuating signal to a drive system to cause the drive system to oscillate a cutting knife from a resting position to an active position and back to the resting position;

a position sensing circuit ~~to receive~~ that receives a position signal from a sensor when the cutting knife is at a predetermined position that is substantially different than the resting position; and

an adjusting circuit coupled to the synchronization circuit, the position sensing circuit, and the actuating circuit, the adjusting circuit causing the actuating circuit to provide subsequent actuating signals so that the cutting knife arrives at the predetermined position at a predetermined time relative to the synchronization signal.

9. (currently amended):

The ~~controller for~~ controller of the web cutter as recited in 8, wherein the adjusting circuit

provides a delay time between the receiving of the synchronization signal and the providing

of the actuating signal, and adjusts the delay time to provide subsequent actuating signals so

that the cutting knife arrives at the predetermined position at a predetermined time relative to

the synchronization signal.

10. (currently amended):

The ~~controller for~~ controller of the web cutter as recited in 8, wherein the synchronization

signal allows the phase within the cutting cycle to be determined.

11. (currently amended):

The ~~controller for~~ controller of the web cutter as recited in 10, wherein the adjusting circuit

provides a target value for the synchronization signal and causes the actuating signal to be

provided when the synchronization signal equals the target value, and adjusts the target value

to provide subsequent actuating signals so that the cutting knife arrives at the predetermined

position at a predetermined time relative to the synchronization signal.

12. (currently amended):

The ~~controller for~~ controller of the web cutter as recited in 11, wherein the adjusting circuit

compares the synchronization signal to a goal value when the position signal is received to

adjust the target value accordingly.

13. (currently amended):

The ~~controller for~~ controller of the web cutter as recited in 8, wherein the predetermined position is substantially at a position where the cutting knife is in contact with the web prior to cutting the web.

14.-19. (cancelled)

20. (previously presented):

A cutter for a web which comprises:

a cutting knife

means for advancing a web of material past the cutting knife;

means for receiving a synchronization signal to provide a known point in each advancing of the web;

means for providing an actuating signal to cause a drive system to oscillate the cutting knife from a resting position to an active position and back to the resting position;

means for sensing a position of the cutting knife;

means for receiving a position signal from the position sensing means when the cutting knife is at a predetermined position that is substantially different than the resting position; and

means for adjusting subsequent actuating signals so that the cutting knife arrives at the predetermined position at a predetermined time relative to the synchronization signal, the adjusting of subsequent actuating signals being responsive to the position signal.

21. (previously presented):

The cutter as recited in 20, wherein the means for adjusting subsequent actuating signals further adjusts a delay time between the receiving of the synchronization signal and the providing of the actuating signal.

22. (original):

The cutter as recited in 20, wherein the synchronization signal allows the phase within the cutting cycle to be determined.

23. (previously presented):

The cutter as recited in 22, wherein the means for adjusting subsequent actuating signals further compares the synchronization signal and a target value, wherein the means for providing an actuating signal operates when the synchronization signal is equal to the target value, and the means for adjusting subsequent actuating signals is further for adjusting the target value.

24. (previously presented):

The cutter as recited in 23, wherein the means for adjusting subsequent actuating signals further compares the synchronization signal to a goal value when the position signal is received to adjust the target value accordingly.

25. (original):

The cutter as recited in 24, wherein the predetermined position is substantially at a position where the cutting knife is in contact with the web prior to cutting the web.